

Barry County, MI

Risk-assessment baseline packet

Unit **County area 26015** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

Hazard Plain is an independent product built from public federal data. It is not a FEMA document and is not reviewed or endorsed by FEMA or any state agency.

A starting point for the plan's risk assessment (FEMA Local Mitigation Plan Review Tool, Element B). It does not replace local data or FEMA review. Section headings say which FEMA review item each table supports; whether an item is satisfied is decided by the plan and its reviewers.

OPENFEMA DISCLAIMER

This product uses the Federal Emergency Management Agency's OpenFEMA API, but is not endorsed by FEMA. The Federal Government or FEMA cannot vouch for the data or analyses derived from these data after the data have been retrieved from the Agency's website(s).

Plan clock

Status	Approved, expires 2028-06-08	Plan	Barry County HMP (FEMA plan 108889)
Approved	2023-06-09	Expires	2028-06-08
As of	2026-09-28	Days	619 days to expiry

What changed since your last plan (approved 2023-06-09)

New federal declarations	DR-4925-MI (1 declaration row; 1 counted incident)	Storm Events records since approval	35 (data through 2026-06-30)
Repetitive loss now	FMA RL 4, SRL 6 (44 CFR 77.2); any definition: 42	Repeat-flood change	First release: no prior release to compare.

SOURCES: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API); FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API); NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>; FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

Plan status for every jurisdiction listed in this county: 22 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

State plan status and tribal plans in this state: see the state page.

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Plan clock

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Barry County	County	Approved, expires 2028-06-08	Barry County HMP (FEMA plan 108889)	2023-06-09	2028-06-08	619		
Freeport village	Village	Approved, expires 2028-06-08	Barry County HMP (FEMA plan 108889)	2023-06-09	2028-06-08	619		member approved 2023-07-19
Hastings city	City	Approved, expires 2028-06-08	Barry County HMP (FEMA plan 108889)	2023-06-09	2028-06-08	619		member approved 2023-07-05
Middleville village	Village	Approved, expires 2028-06-08	Barry County HMP (FEMA plan 108889)	2023-06-09	2028-06-08	619		member approved 2023-07-19
Nashville village	Village	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Woodland village	Village	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Assyria township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Baltimore township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Barry township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Carlton township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Castleton township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Hastings charter township	Township	Approved, expires 2028-06-08	Barry County HMP (FEMA plan 108889)	2023-06-09	2028-06-08	619		member approved 2023-07-19
Hope township	Township	Approved, expires 2028-06-08	Barry County HMP (FEMA plan 108889)	2023-06-09	2028-06-08	619		member approved 2023-07-19
Irving township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Johnstown township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Maple Grove township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Orangeville township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Prairieville township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Rutland charter township	Township	Approved, expires 2028-06-08	Barry County HMP (FEMA plan 108889)	2023-06-09	2028-06-08	619		member approved 2023-07-19
Thornapple township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Woodland township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Yankee Springs township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	Barry County HMP (FEMA plan 108889), pending adoption here	2023-06-09 by FEMA; not yet adopted here	2028-06-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

SOURCE
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B1-a: hazards

Hazards NRI does not cover: check locally

- dam failure (incl. upstream dams)
 - levee failure
 - flash flood as its own subtype
 - ice jams
- debris flows
 - erosion (riverine and coastal)
 - land subsidence and sinkholes
 - expansive soils

The 18 National Risk Index hazards, ranked by expected annual loss (EAL)

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings	EAL agriculture	EAL population equivalence	EAL total (see note)	Storm Events records since 1996	Evidence for an omission	Storm Events coverage note
				<i>modeled dollars per year</i>	<i>modeled dollars per year</i>	<i>statistical value of life and injury, \$13.7M per life, not property damage</i>	<i>modeled dollars per year</i>	<i>count</i>	<i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	
1	Inland Flooding	Relatively Low	Relatively Low	\$10,171,664	\$15,551	\$4,939	\$10,192,154	15		
2	Tornado	Relatively Moderate	Relatively Moderate	\$2,116,230	\$4,417	\$1,049,162	\$3,169,808	7		
3	Strong Wind	Relatively Moderate	Relatively Moderate	\$999,267	\$53,604	\$316,015	\$1,368,886	131		Includes 10 High Wind records, event types the NRI definition of this hazard leaves out.
4	Cold Wave	Relatively Low	Relatively Moderate	\$400	\$50,789	\$1,090,045	\$1,141,235	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
5	Hail	Relatively Low	Relatively Low	\$388,697	\$43,384	\$13,501	\$445,581	47		
6	Ice Storm	Relatively Moderate	Relatively Moderate	\$234,553		\$18,783	\$253,336	4		
7	Heat Wave	Very Low	Very Low	\$3,261	\$1	\$177,904	\$181,166	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
8	Earthquake	Very Low	Very Low	\$106,132		\$25,815	\$131,947			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
9	Lightning	Relatively Low	Relatively Low	\$10,703		\$112,674	\$123,377	1		
10	Winter Weather	Relatively Low	Relatively Low	\$11,794	\$1,359	\$39,614	\$52,768	81		Includes 1 Sleet record, event types the NRI definition of this hazard leaves out.
11	Wildfire	Very Low	Very Low	\$11,325	\$13	\$1,022	\$12,360	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
12	Landslide	Relatively Low	Relatively Low	\$1,232		\$9,028	\$10,260	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
13	Hurricane	Very Low	Very Low	\$2,354	\$5,381	\$4	\$7,739	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Drought	No Rating	No Expected Annual Losses		\$0		\$0	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Avalanche	Not Applicable	Not Applicable					0	NRI rates avalanche Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Coastal Flooding	Not Applicable	Not Applicable					0	NRI rates coastal flooding Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

Total = buildings + agriculture + population equivalence; FEMA values each expected death (or 10 injuries) at \$13.7 million (2024 dollars).

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

Check your state hazard mitigation plan's hazard list for this county; explain any hazard you drop.

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 16
Coastal Flooding	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 16
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	16 of 16
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 16
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	16 of 16
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	16 of 16
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	16 of 16
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	16 of 16
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	16 of 16
Inland Flooding	The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (https://msc.fema.gov) for this county.	16 of 16
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	16 of 16
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	16 of 16
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	16 of 16
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	16 of 16
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 16
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 16
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	16 of 16
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	16 of 16

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

Supports B1-c: extent

Extent: scale, observed range and worst recorded event per hazard

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	0					Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	0					Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D- scale	0					Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	59, 1975 to 2026	0.5 in to 2.5 in (median 0.88 in); 59 with a recorded value	2.5 in hail, 2023-04-04		Event records naming member places: Hastings charter township (13 records), Hastings city (13 records), Nashville village (6 records), Middleville village (4 records), Woodland township (4 records), Woodland village (4 records), Freeport village (2 records), Prairieville township (2 records), Assyria township (1 record), Irving township (1 record); and 2 more member places (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	0					Heat index: in event narratives only; local data required.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Ice Storm	Sperry-Piltz (local data)	4, 1997 to 2023 (4 zone- level)		Ice Storm, 2013-12-21, \$5,000,000 property; \$0 crops, reported for the zone (2013 dollars); NWS zone MIZ065 (BARRY), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	15, 1997 to 2013 (3 zone- level)		Flood, 2013-04-17, \$5,000,000 property; \$0 crops (2013 dollars)		Event records naming member places: Freeport village (1 record), Hastings charter township (1 record), Hastings city (1 record), Middleville village (1 record), Yankee Springs township (1 record). Zone-level records (3) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1, 1997 to 1997		Lightning, 1997-09-19, damage not reported, 1 direct injury		Event records naming member places: Hastings charter township (1 record), Hastings city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	10, 1997 to 2021 (10 zone- level)	42 kt (48 mph) to 62 kt (71 mph) (median 52 kt (60 mph)); 9 with a recorded value	62 kt (71 mph), measurement type not recorded, High Wind, 1998-11-10; NWS zone MIZ065 (BARRY), zone- level: may include parts of neighboring counties	High Wind, 2017-03-08, \$10,000,000 property; \$0 crops, reported for the zone (2017 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	164, 1958 to 2026	50 kt (58 mph) to 70 kt (81 mph) (median 53 kt (61 mph)); 97 with a recorded value	70 kt (81 mph), measurement type not recorded, Thunderstorm Wind, 1998-06-12	Thunderstorm Wind, 2019-06-01, \$150,000 property; \$0 crops (2019 dollars)	Event records naming member places: Hastings charter township (20 records), Hastings city (20 records), Middleville village (11 records), Orangeville township (11 records), Nashville village (10 records), Freeport village (5 records), Irving township (5 records), Assyria township (4 records), Woodland township (4 records), Woodland village (4 records); and 3 more member places (see the XLSX file).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Tornado	Enhanced Fujita (F before Feb 2007)	22, 1955 to 2026	F/EF0 to F/EF3 (median F/EF1); 22 with a recorded value	F3 tornado, 1965-04-11, 14.1 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 33 yd wide, \$250,000 property; crops not recorded (1965 dollars), 5 direct injuries	Tornado, 1956-04-03, \$2,500,000 property; crops not recorded (1956 dollars)	Event records naming member places: Irving township (1 record), Maple Grove township (1 record), Orangeville township (1 record), Yankee Springs township (1 record).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	81, 1996 to 2026 (81 zone-level)		Winter Storm, 2018-04-14, \$100,000 property; \$0 crops, reported for the zone (2018 dollars); NWS zone MIZ065 (BARRY), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

Where a hazard names more than 10 member places, the table lists the 10 with the most records; every place is in the XLSX file, sheet "B1-c Extent".

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

Dollars are nominal (as reported), labeled with the year; not adjusted for inflation.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Supports B1-d: previous occurrences

Declaration rows

14

Counted incidents

11

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2026-06-30	2026-04-10	DR-4925-MI	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding (primary); also designated: Tornado	PA not declared for this county	new since last plan; within last 5 years	
2020-03-27	2020-01-20	DR-4494-MI	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	none found		
2020-03-13	2020-01-20	EM-3455-MI	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4494
2013-06-18	2013-04-16	DR-4121-MI	Major disaster	FLOODING	Inland Flooding	\$238,778.64		
2008-07-14	2008-06-06	DR-1777-MI	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$703,476.68		
2005-09-07	2005-08-29	EM-3225-MI	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2004-06-30	2004-05-20	DR-1527-MI	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	PA not declared for this county		
2001-01-10	2000-12-11	EM-3160-MI	Emergency	SNOW	Winter Weather	\$54,611.25		
1999-01-27	1999-01-02	EM-3137-MI	Emergency	MI - SEVERE WEATHER 1/2 /99	Winter Weather	\$41,939.39		
1978-01-27	1978-01-27	EM-3057-MI	Emergency	BLIZZARDS & SNOWSTORMS	Winter Weather	none found		
1977-02-05	1977-02-05	EM-3030-MI	Emergency	SNOWSTORMS	Winter Weather	none found		
1975-04-26	1975-04-26	DR-465-MI	Major disaster	SEVERE STORMS, HIGH WINDS & FLOODING	Inland Flooding (primary); also designated: Strong Wind	none found		
1972-04-05	1972-04-05	DR-330-MI	Major disaster	SEVERE STORM & FREEZING	Winter Weather	none found		
1965-04-14	1965-04-14	DR-190-MI	Major disaster	TORNADOES & SEVERE STORMS	Tornado	none found		

County Public Assistance: applicants the FEMA record places in this county, including any state agencies FEMA files there; statewide rows are listed on the state page; federal share obligated, nominal dollars.

Dollars are nominal (as reported), labeled with the year; not adjusted for inflation.

SOURCES

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Statewide declarations

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
1956-04-05	1956-04-05	DR-53-MI	Major disaster	TORNADO	Tornado		
1953-06-09	1953-06-09	DR-6-MI	Major disaster	TORNADO	Tornado		
1953-06-02	1953-06-02	DR-4-MI	Major disaster	TORNADO	Tornado		

FEMA recorded these with designated area Statewide and no county. Listed on every county page in the state; not counted with county rows.

SOURCE

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Drought	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	59	3	3	6	0	0	1955 to 2026-06-30	
Heat Wave	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	4	0	1	1	0	0	1996 to 2026-06-30	
Inland Flooding	15	0	0	0	5	1	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	1	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	174	25	2	28	1	0	1955 to 2026-06-30	Includes 10 High Wind records, event types the NRI definition of this hazard leaves out.
Tornado	22	3	0	3	4	1	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	81	4	2	8	5	0	1996 to 2026-06-30	Includes 1 Sleet record, event types the NRI definition of this hazard leaves out.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2023-04-04	Hail	2.5 in	\$500,000 property; \$0 crops (2023 dollars)	0, 0	IRVING	during plan review, check whether your last plan included it; within last 5 years	B1-c worst recorded: Hail
2019-06-01	Thunderstorm Wind	52 kt (60 mph) estimated gust	\$150,000 property; \$0 crops (2019 dollars)	0, 0	SCHULTZ		B1-c most damaging: Thunderstorm Wind
2018-04-14	Winter Storm		\$100,000 property; \$0 crops, reported for the zone (2018 dollars)	0, 0	NWS zone MIZ065 (BARRY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2017-03-08	High Wind	61 kt (70 mph) estimated gust	\$10,000,000 property; \$0 crops, reported for the zone (2017 dollars)	0, 0	NWS zone MIZ065 (BARRY), zone-level: may include parts of neighboring counties		B1-c most damaging: High Wind and Strong Wind (outside NRI Strong Wind definition)
2013-12-21	Ice Storm		\$5,000,000 property; \$0 crops, reported for the zone (2013 dollars)	0, 0	NWS zone MIZ065 (BARRY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm
2013-04-17	Flood		\$5,000,000 property; \$0 crops (2013 dollars)	0, 0	MIDDLEVILLE to DOSTER		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1998-11-10	High Wind	62 kt (71 mph), measurement type not recorded	damage not reported	0, 0	NWS zone MIZ065 (BARRY), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
1998-06-12	Thunderstorm Wind	70 kt (81 mph), measurement type not recorded	damage not reported	0, 0	DELTON		B1-c worst recorded: Thunderstorm Wind
1997-09-19	Lightning		damage not reported	0, 1	HASTINGS		deaths or injuries recorded

			Direct deaths, injuries		Location	Flags	Why listed
Date	Event type	Magnitude or extent	Damage nominal dollars	indirect not counted			
1967-04-21	Tornado	F2, 14.5 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 500 yd wide	\$25,000 property; crops not recorded (1967 dollars)	0, 1	location not recorded		deaths or injuries recorded
1965-04-11	Tornado	F3, 14.1 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 33 yd wide	\$250,000 property; crops not recorded (1965 dollars)	0, 5	location not recorded		deaths or injuries recorded
1956-04-03	Tornado	F3, 12.6 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 200 yd wide	\$2,500,000 property; crops not recorded (1956 dollars)	0, 0	location not recorded		B1-c most damaging: Tornado

The full list is in the XLSX file, sheet "B1-d Storm Events history" (356 rows).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

State-declared emergencies are not in federal data. Add them from your state emergency management agency.

Tribal and special-area declarations in this state are listed on the state page.

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

FEMA annualized frequency (modeled)		NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)							
Hazard	unit per row	Unit	In plain terms	Descriptor	Descriptor basis	NRI period	Location	Note	
Avalanche		events per year				1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.	
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Cold Wave	1.63	event-days per year	about 1.63 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	31 2005-11-12 to 2024-11-12 (19 years)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Drought	0	event-days per year	none modeled		event-days in 0 of 30 years, 1996 to 2025 (0%)	0	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Earthquake	0.00086	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.086%			not shown	modeled	see B1-f	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.
Hail	1.91	events per year	about 1.91 per year	Highly likely	FEMA annualized frequency (modeled)	72.6 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	2.68	event-days per year	about 2.68 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	39	2005-11-12 to 2024-11-12 (19 years)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Hurricane	0.0126	events per year	about 1 in 79 years	Possible	FEMA annualized frequency (modeled)	6	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.
Ice Storm	1.59	event-days per year	about 1.59 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	108	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.59 ice storm event-days a year here (its annualized frequency over 67 years; not its event count divided by the years), but Storm Events has a record in only 4 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Inland Flooding	0.464	event-days per year	about 0.464 days per year	Likely	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	13	1996 to 2023 (28 years)	see B1-f	
Landslide	0.269	events per year (modeled)	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	34.6	days per year with a strike	about 34.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	3.69	events per year	about 3.69 per year	Highly likely	FEMA annualized frequency (modeled)	141	1986 to 2023 (38 years)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Tornado	0.236	events per year	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.0000189	annual probability at a location	chance a given location in the county burns in a year: 0.00189%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)
Winter Weather	22.9	event-days per year	about 22.9 days per year	Likely	event-days in 25 of 30 years, 1996 to 2025 (83.3%)	436	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Descriptor scale used in this packet (defined per unit)

Unit	Descriptor	Definition
events per year	Highly likely	1 or more per year
events per year	Likely	about once in 1 to 10 years
events per year	Possible	about once in 10 to 100 years
events per year	Unlikely	less than once in 100 years
annual probability	Likely	10% to under 100% chance in a given year

Unit	Descriptor	Definition
annual probability	Possible	1% to under 10% chance in a given year
annual probability	Unlikely	under 1% chance in a given year
event-days (share of years)	Highly likely	event-days recorded in 90% or more of years
event-days (share of years)	Likely	event-days recorded in 10% to under 90% of years
event-days (share of years)	Possible	event-days recorded in some years but under 10% of years
lightning strike-days	Highly likely	cloud-to-ground strikes on 1 or more days per year

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Intensity bands: historical frequency (Storm Events)

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	21	30	0.7
Hail	2.00 in+	1996 to 2025	2	30	0.0667
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	78	30	2.6
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	4	30	0.133
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	30	30	1
Tornado	EF0-1	1996 to 2025	5	30	0.167
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

Hail smaller than 1 inch is not counted: on 2010-01-05 the National Weather Service raised its severe-hail threshold from 3/4 inch to 1 inch, so smaller reports became less common after 2009 (NWS Service Change Notice 09-52). NRI hail frequency uses a 0.75 inch threshold.

SOURCE
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Optional: future conditions. Not a required item in the 2025 FEMA Local Mitigation Planning Policy Guide; some states ask for it. The federal Climate Mapping for Resilience and Adaptation (CMRA) site gives county exposure to future climate conditions.

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Risk score		Median	Max	Tracts by rating	Note
	Tracts <i>rated of all</i>	<i>NRI score, 0 to 100</i> min				
Avalanche	0 of 16				Not Applicable 16	

Hazard	Risk score		Median	Max	Tracts by rating	Note
	Tracts rated of all	min NRI score, 0 to 100				
Coastal Flooding	0 of 16				Not Applicable 16	
Cold Wave	16 of 16	45.0	53.7	69.1	Relatively Moderate 14, Relatively Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	0 of 16				No Rating 16	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Earthquake	16 of 16	11.0	22.5	37.2	Very Low 16	
Hail	16 of 16	54.7	71.7	84.0	Relatively Moderate 11, Relatively Low 5	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	16 of 16	8.4	12.3	24.0	Relatively Low 5, Very Low 11	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	16 of 16	20.5	27.2	38.5	Very Low 16	
Ice Storm	16 of 16	55.5	77.0	86.8	Relatively Moderate 14, Relatively Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	16 of 16	8.1	42.7	88.8	Relatively High 1, Relatively Moderate 4, Relatively Low 10, Very Low 1	
Landslide	16 of 16	71.3	87.9	94.6	Relatively Low 14, Very Low 2	
Lightning	16 of 16	25.9	34.0	48.7	Relatively Low 16	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	16 of 16	69.0	85.8	95.8	Relatively High 12, Relatively Moderate 4	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	16 of 16	55.4	70.0	88.4	Relatively High 5, Relatively Moderate 11	
Tsunami	0 of 16				Not Applicable 16	
Volcanic Activity	0 of 16				Not Applicable 16	
Wildfire	16 of 16	50.3	63.7	70.4	Relatively Low 2, Very Low 14	
Winter Weather	16 of 16	42.1	51.7	65.2	Relatively Moderate 14, Relatively Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

Rated tracts only: No Rating (score 0.0), Not Applicable and Insufficient Data tracts are counted but not used for the minimum, median and maximum.

SOURCE

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Barry County	County	Approved, expires 2028-06-08		\$5,979.75	0; 0	No NFIP community ID on this member's plan row.
Freeport village	Village	Approved, expires 2028-06-08	FMA RL 0, SRL 0; any 0	none found	8; 3	
Hastings city	City	Approved, expires 2028-06-08	FMA RL 0, SRL 0; any 0	\$25,283.48	35; 3	
Middleville village	Village	Approved, expires 2028-06-08	FMA RL 0, SRL 0; any 0	none found	16; 2	
Nashville village	Village	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 1	none found	16; no approved plan	
Woodland village	Village	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	8; no approved plan	
Assyria township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	5; no approved plan	
Baltimore township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	0; no approved plan	
Barry township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	0; no approved plan	
Carlton township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	0; no approved plan	
Castleton township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 3, SRL 5; any 27	none found	0; no approved plan	
Hastings charter township	Township	Approved, expires 2028-06-08	FMA RL 1, SRL 0; any 7	none found	35; 3	
Hope township	Township	Approved, expires 2028-06-08	FMA RL 0, SRL 0; any 1	none found	0; 0	

Member	Type	Plan status	Repetitive loss	Public Assistance matched	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>federal share obligated, nominal dollars</i>	<i>all years; since the member's plan</i>	
Irving township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	7; no approved plan	
Johnstown township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	0; no approved plan	
Maple Grove township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	2; no approved plan	
Orangeville township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	13; no approved plan	
Prairieville township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	4; no approved plan	
Rutland charter township	Township	Approved, expires 2028-06-08	FMA RL 0, SRL 0; any 1	none found	0; 0	
Thornapple township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 1; any 4	none found	0; no approved plan	
Woodland township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	8; no approved plan	
Yankee Springs township	Township	Plan 108889 approved 2023-06-09, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 1	none found	4; no approved plan	

Member rows are whole NFIP communities and need not add up to the county total: a community that extends into another county is counted in full on each member row, while the county table counts only its part in this county.

School districts and special districts get a plan clock row only.

SOURCES

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Supports B2-a and B2-b: assets and impacts

Local data required

County-level starter. The plan must describe impacts for each participant and its own assets.

- Critical facilities and lifelines per hazard
- A problem statement per participant per hazard
- Changes in development in hazard-prone areas since the last approval, or a statement of none (E1-a)
- Future assets

County-level starter: exposure, expected annual loss and damage since the plan

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-06-09 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche											Not Applicable in NRI for this county
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$15,708,557,186	\$179,821,950	62,414	\$400	\$50,789	\$1,090,045	under 0.0001%				
Drought		\$0			\$0						agriculture exposure is 0 in NRI
Earthquake	\$25,713,478,118		62,423	\$106,132		\$25,815	0.000413%				
Hail	\$15,708,557,186	\$179,821,950	62,414	\$388,697	\$43,384	\$13,501	0.00247%				
Heat Wave	\$15,708,557,186	\$179,821,950	62,414	\$3,261	\$1	\$177,904	under 0.0001%				
Hurricane	\$15,656,536,643	\$175,273,351	62,233	\$2,354	\$5,381	\$4	under 0.0001%				
Ice Storm	\$15,708,076,937		62,408	\$234,553		\$18,783	0.00149%				
Inland Flooding	\$15,655,528,809	\$1,365,479	1,931	\$10,171,664	\$15,551	\$4,939	n/a (see note)			none found (1 declaration)	NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/ B2-b. EAL as % of exposure: n/a.
Landslide	\$290,103,312		1,115	\$1,232		\$9,028	0.000425%				
Lightning	\$15,708,557,186		62,414	\$10,703		\$112,674	under 0.0001%				
Strong Wind	\$15,708,557,186	\$179,821,950	62,414	\$999,267	\$53,604	\$316,015	0.00636%	\$282,000			
Tornado	\$15,708,557,186	\$179,821,950	62,414	\$2,116,230	\$4,417	\$1,049,162	0.0135%			none found (1 declaration)	

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-06-09 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$8,010,666,592	\$86,578,568	31,359	\$11,325	\$13	\$1,022	0.000141%				
Winter Weather	\$15,708,557,186	\$179,821,950	62,414	\$11,794	\$1,359	\$39,614	under 0.0001%		\$0		

Totals since 2023-06-09 (Storm Events through 2026-06-30): 31 county-coded records, 7 with a damage value recorded (including \$0), \$282,000; 4 zone-level records, 2 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations none found (1 declaration, 0 with PA).

Total = buildings + agriculture + population equivalence; FEMA values each expected death (or 10 injuries) at \$13.7 million (2024 dollars).

FEMA does not split Public Assistance by hazard. A declaration mapped to several hazards is listed under each of them with its full amount, so the per-hazard column must not be added up; the unit total counts each declaration once.

Dollars are nominal (as reported), labeled with the year; not adjusted for inflation.

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B2-a: context

County context

Measure	Value
Population	62,414
Building value (total, not at risk)	\$15,708,557,186
Agriculture value (total, not at risk)	\$179,821,950
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$14,232,111
Expected annual loss, population equivalence, all hazards (NRI values each statistical life at \$13.7M; a modeled value of expected deaths and injuries, not property damage)	\$2,858,506
Social vulnerability rating	Relatively Low
Community resilience rating	Very High
NRI version	December 2025

FEMA's all-hazard expected annual loss total adds buildings, agriculture and population equivalence; the two parts are shown separately so the property figure is not read as including the statistical value of life.

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	4	Severe repetitive loss, FMA definition (44 CFR 77.2)	6
Repetitive loss, NFIP insurance definition	41	Severe repetitive loss, NFIP insurance definition	5

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

SOURCES
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties: county and state-level rows

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	4	6	41	5	42	0	9
THORNAPPLE, TOWNSHIP OF	0	1	4	1	4	0	2
CASTLETON, TOWNSHIP OF	3	5	26	4	27	0	7
HASTINGS, TOWNSHIP OF	1	0	7	0	7	0	0
RUTLAND, TOWNSHIP OF	0	0	1	0	1	0	0
HOPE, TOWNSHIP OF	0	0	1	0	1	0	0
YANKEE SPRINGS, TOWNSHIP OF	0	0	1	0	1	0	0
NASHVILLE, VILLAGE OF	0	0	1	0	1	0	0
State level, not in this county: county not reported	0	0	4	0	4	0	0

SOURCES
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties by plan member (NFIP community)

Member	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
Freeport village	260878	0	0	0	0	0	0	0	
Hastings city	260314	0	0	0	0	0	0	0	
Middleville village	260356	0	0	0	0	0	0	0	
Nashville village	260902	0	0	1	0	1	0	0	

Member	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
Woodland village	260882	0	0	0	0	0	0	0	
Assyria township	260875	0	0	0	0	0	0	0	
Baltimore township	260666	0	0	0	0	0	0	0	
Barry township	260876	0	0	0	0	0	0	0	
Carlton township	260877	0	0	0	0	0	0	0	
Castleton township	260641	3	5	26	4	27	0	7	
Hastings charter township	260648	1	0	7	0	7	0	0	
Hope township	260681	0	0	1	0	1	0	0	
Irving township	260354	0	0	0	0	0	0	0	
Johnstown township	260355	0	0	0	0	0	0	0	
Maple Grove township	260644	0	0	0	0	0	0	0	
Orangeville township	260879	0	0	0	0	0	0	0	
Prairieville township	260880	0	0	0	0	0	0	0	
Rutland charter township	260656	0	0	1	0	1	0	0	
Thornapple township	260630	0	1	4	1	4	0	2	
Woodland township	260881	0	0	0	0	0	0	0	
Yankee Springs township	260883	0	0	1	0	1	0	0	

Per-member types: XLSX sheet 'B2-c Members'.

Member rows are whole NFIP communities and need not add up to the county total: a community that extends into another county is counted in full on each member row, while the county table counts only its part in this county.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

County repeat-flood properties by occupancy group

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	4	6	41	5	42	0	9
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	0	0	0	0	0
not reported	0	0	0	0	0	0	0

Institutional properties cannot be separated in this data: FEMA's occupancy groups have no institutional class, so they fall in non-residential or other residential in the table by occupancy group.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

FMA RL and FMA SRL are the Flood Mitigation Assistance definitions (44 CFR 77.2), the ones the FEMA Local Mitigation Planning Policy Guide cites; OpenFEMA's fmaRL field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRL) is 2 or more claims over \$1,000 in 10 years and can drop to false when a property is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured.

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (as of 2026-08-02). No property is identified. County assignment is FEMA's geocode.

Counts may differ from your state NFIP coordinator's list, which is the source the Handbook names.

In this county 1 property is FMA repetitive loss but not NFIP repetitive loss, and 38 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Every table above lists its own sources. The full list, for the plan's bibliography (FEMA review item A4-a):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-28, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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Cite this: Hazard Plain (2026). Barry County, MI: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 26015). Preview: automated baseline. Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

Corrections: to report an error, name the packet, the table and what your records show. Contact: to be added

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_MI_26015. Preview: automated baseline.